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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/821,195	04/09/2004	Yih Huang	GMU-03-023U	8608		
28598 12/12/20/08 GEORGE MASON UNIVERSITY OFFICE OF TECHNOLOGY TRANSFER, MSN 5G5			EXAM	EXAMINER		
			GELAGAY, SHEWAYE			
4400 UNIVER FAIRFAX, VA		ART UNIT	PAPER NUMBER			
,		2437				
			MAIL DATE	DELIVERY MODE		
			12/12/2008	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Application No. 10/821,195 HUANG ET AL. Examiner Art Unit SHEWAYE GELAGAY -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. -- Extensions of time may be available unless the proteiners of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIK (MIGNTHS from the segind date of the communication.

		SHEWAYE GELAGAY	2437				
	The MAILING DATE of this communication app	ears on the cover sheet with the o	correspondence ad	ldress			
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WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY  LIFLEYER IS LONGER, FROM THE MALING DA  rations of time may be available under the provisions of 37 CFR 11.  SIX (#) MONTHS from the mailing date of this communication.  D period for reply is specified above, the maximum statutory period we not reply the provision of 37 CFR 11.  The reply received by the Office later than three months after the mailing and partner than 40 period for reply with the state of t	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this c D (35 U.S.C. § 133).	,			
Status							
1)🖂	Responsive to communication(s) filed on 9/12/	<u>08</u> .					
2a)⊠	This action is FINAL. 2b) ☐ This	action is non-final.					
3)	secution as to the	e merits is					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims							
4)⊠	☑ Claim(s) 1-27 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.						
6)⊠	Claim(s) 1-27 is/are rejected.						
7)	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restriction and/or	r election requirement.					
Applicat	ion Papers						
9)	The specification is objected to by the Examine	r.					
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correcti	ion is required if the drawing(s) is ob	jected to. See 37 Cl	FR 1.121(d).			
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form P7	ΓΟ-152.			
Priority (	under 35 U.S.C. § 119						
	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	)-(d) or (f).				
a)	All b) Some * c) None of:						
	<ol> <li>Certified copies of the priority documents</li> </ol>						
	2. Certified copies of the priority documents						
	Copies of the certified copies of the prior	•	ed in this National	Stage			
	application from the International Bureau						
- (	See the attached detailed Office action for a list	of the certified copies not receive	ıd.				
Attachmen	at(s)						

Paper No(s)/Mail Date \_\_\_

6) Other: \_\_\_

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## DETAILED ACTION

This office action is in response to Applicant's amendment filed on September
 2008. Claims 1 and 16 are amended. Claims 1-27 are pending.

### Response to Arguments

Applicant's arguments September 12, 2008 have been considered but are moot in view of the new ground(s) of rejection.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

 Claims 1-10, 12-24 and 26-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bommareddy et al. (hereinafter Bommareddy) US Patent Number 6,880,089 in view of Tremain US Publication Number 2002/0069369.

As per claims 1 and 16:

Bommareddy a self-cleansing system comprising:

- a) at least two subsystems, said at least two subsystems including an active subsystem and at least one available inactive subsystem: (col. 15. lines 66-67)
  - b) a communications link connecting said at least two subsystems; (figure 8)

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 c) a local network capable of connecting said at least two subsystems to an external network; (figure 8)

- d) an arbitration mechanism capable of designating one of said at least one available inactive subsystem to be a designated active system; (figure 8)
- e) an IP address shared by at least said active subsystem and said designated active subsystem, only said active subsystem utilizing said IP address to output information to said external network; (col. 16, lines 4-13)
  - f) a transfer mechanism capable of:
    - i) deactivating said active subsystem, causing said active subsystem to become a deactivated subsystem; (col. 19, line 38-col. 22, line 39) and ii) activating said designated active subsystem, causing said designated
    - active subsystem to become said active subsystem; (col. 19, line 38-col. 22, line 39) and
- g) a self-cleansing mechanism capable of cleansing said deactivated subsystem, causing said deactivated subsystem to become one of said at least one available inactive subsystem. (col. 19, line 38-col. 22, line 39)

Bommareddy does not explicitly disclose wherein the active system automatically assumed to have failed regardless whether said active subsystem actually has failed.

Tremain in analogous art, however, discloses an intrusion detection that is automatically invoked for analysis, evasions or response process, for example to shut down or to tighten host or firewall security. The intrusion system can automatically scan for patterns which indicate the presence of malicious software activity. (page 10, pp. 136-137).

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Therefore it would have been obvious to one ordinary skill in the art at the time the invention was made to modify the system disclosed by Bommareddy with Tremain in order to provide a system that detect, according to static, dynamic or heuristic rule sets, whether one or more computers is being misused or subjected to a hostile attack.

(Tremain, page 10, pp. 137)

As per claims 2 and 17:

The combination of and Tremain teaches all the subject matter as discussed above. In addition, Bommareddy further teaches a system wherein said arbitration mechanism uses a criterion to select which of said at least one available inactive subsystem is to be designated said designated active subsystem. (col. 19, line 38-col. 22, line 39)

As per claim 3:

The combination of and Tremain teaches all the subject matter as discussed above. In addition, Bommareddy further teaches a system wherein said transfer mechanism is activated by a transfer criterion. (col. 19, line 38-col. 22, line 39)

As per claim 4 and 18:

The combination of and Tremain teaches all the subject matter as discussed above. In addition, Bommareddy further teaches a system wherein said transfer criterion is a fault detection criterion. (col. 19, line 38-col. 22, line 39)

As per claims 5 and 19:

The combination of and Tremain teaches all the subject matter as discussed above. In addition, Bommareddy further teaches a system wherein said transfer

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criterion is an intrusion detection criterion. (col. 3, lines 35-37; col. 8, lines 52-60; col.

19, line 38-col. 22, line 39; col. 23, lines 61-67)

As per claim 6 and 20:

The combination of and Tremain teaches all the subject matter as discussed above. In addition, Bommareddy further teaches a system wherein said transfer criterion considers time. (col. 19, lines 1-4)

As per claim 7 and 21:

The combination of and Tremain teaches all the subject matter as discussed above. In addition, Bommareddy further teaches a system wherein at least two of said at least two subsystems are firewalls. (figure 1)

As per claim 8 and 22:

The combination of and Tremain teaches all the subject matter as discussed above. In addition, Bommareddy further teaches a system wherein at least two of said at least two subsystems are servers. (col. 3, lines 26-30)

As per claim 9 and 23:

The combination of and Tremain teaches all the subject matter as discussed above. In addition, Bommareddy further teaches a system wherein at least two of said at least two subsystems are gateways. (col. 4, lines 23-30)

As per claim 10 and 24:

The combination of and Tremain teaches all the subject matter as discussed above. In addition, Bommareddy further teaches a system further include integrity check Application/Control Number: 10/821,195 Page 6

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capability. (col. 3, lines 35-37; col. 8, lines 52-60; col. 19, line 38-col. 22, line 39; col. 23, lines 61-67)

As per claim 12 and 26:

The combination of and Tremain teaches all the subject matter as discussed above. In addition, Bommareddy further teaches a system wherein said self-cleansing mechanism includes a capability to reboot at least one of said at least two subsystems. (col. 19, line 38-col. 22, line 39)

As per claim 13:

The combination of and Tremain teaches all the subject matter as discussed above. In addition, Bommareddy further teaches a system further including shared storage accessible by at least two of said at least two subsystems. (col. 6, lines 36-41) As per claim 14:

The combination of and Tremain teaches all the subject matter as discussed above. In addition, Bommareddy further teaches a system wherein said communications link is part of said local network. (figure 1)

As per claim 15 and 27:

The combination of and Tremain teaches all the subject matter as discussed above. In addition, Bommareddy further teaches a system wherein said active subsystem is a plurality of active subsystems. (col. 15, lines 66-67)

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2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be neatived by the manner in which the invention was made.
- 3. Claims 11 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bommareddy et al. (hereinafter Bommareddy) US Patent Number 6,880,089 in view of Tremain US Publication Number 2002/0069369 in view of Bunker, V et al. (hereinafter Bunker) US Publication Number 2003/0028803.

As per claims 11 and 25:

The combination of and Tremain teaches all the subject matter as discussed above. Both references do not explicitly disclose a system including step of auditing said system cleansing actions. Bunker in analogous art, however, discloses a system including step of auditing said system cleansing actions. (page 8, paragraphs 115 and 121) Therefore it would have been obvious to one ordinary skill in the art to modify the method disclosed by Bommareddy and Tremain with Bunker in order to have a system that facilitates an assessment conducted by administrators. (page 8, paragraph 115; Bunker)

### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SHEWAYE GELAGAY whose telephone number is (571)272-4219. The examiner can normally be reached on 8:00 am to 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on 571-272-3865. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Shewaye Gelagay/ Examiner, Art Unit 2437

/Emmanuel L. Moise/ Supervisory Patent Examiner, Art Unit 2437